

## Gravatt, Dan

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**From:** Muenks, Shawn <shawn.muenks@dnr.mo.gov>  
**Sent:** Friday, January 31, 2014 12:09 PM  
**To:** Gravatt, Dan  
**Subject:** FW: Boring Logs

Dan,

Below is information provided by Paul regarding RI bore log data. When you get back to the office and have had a chance to review, I would like to discuss this data with you.

Shawn Muenks, P.E.  
Missouri Department of Natural Resources  
P.O. Box 176, Jefferson City, MO 65102  
Ph: (573)751-3107  
Email: [shawn.muenks@dnr.mo.gov](mailto:shawn.muenks@dnr.mo.gov)

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**From:** Paul Rosasco [<mailto:paulrosasco@emsidenver.com>]  
**Sent:** Tuesday, January 21, 2014 4:50 PM  
**To:** Muenks, Shawn  
**Subject:** RE: Boring Logs

Shawn,

I have not been able to locate the boring logs. I did however, find the field notebook from the drilling which contained the field notes regarding the materials encountered and the downhole gamma results. From the notes, I have been able to reconstruct the following:

Borings drilled May 13-14, 1997

WL-121	Depth of cover ≈5 ft	Depth of trash 61.5 ft	Total Depth 62 ft	Peak gamma reading 380 cps at 52 ft
WL-122	Depth of cover 5 ft	Depth of trash ≈30 ft	Total Depth 35 ft	Peak gamma reading 100 cps at 22 ft
WL-123 observed	Depth of cover 2 ft Note: sample from 35 – 37 ft bgs was wet	Depth of trash 42 ft	Total Depth 42 ft	Peak gamma reading – no peak
WL-124 observed	Depth of cover 3 ft	Depth of trash ≈15 ft	Total Depth 17 ft	Peak gamma reading – no peak

Borings were checked for presence of water at the end of the second day of drilling. No water in borings QL-121, 122, and 124 and 9-inches of water in bottom of boring WL-123.

Because there were no gamma peaks, soil samples were collected from the ground surface.

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**From:** Muenks, Shawn [<mailto:shawn.muenks@dnr.mo.gov>]  
**Sent:** Tuesday, January 21, 2014 1:14 PM  
**To:** Rosasco, Paul ([paulrosasco@emsidenver.com](mailto:paulrosasco@emsidenver.com))  
**Subject:** FW: Boring Logs

Paul,

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Did you find bore logs for WL-121 through WL-124?

Shawn Muenks, P.E.  
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**From:** Muenks, Shawn  
**Sent:** Thursday, December 12, 2013 9:13 AM  
**To:** 'Paul Rosasco'  
**Subject:** RE: Boring Logs

Paul,

Were you ever able to locate these? They will be useful for the trench design.

Shawn Muenks, P.E.  
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**From:** Paul Rosasco [<mailto:paulrosasco@emsidenver.com>]  
**Sent:** Tuesday, June 04, 2013 10:20 AM  
**To:** Muenks, Shawn  
**Subject:** Boring Logs

Shawn,

I have been looking for the WL-121 – WL-124 boring logs but so far have not been able to locate them. I will continue to look for them but because they were drilled in 1997 I will have to get boxes out of storage so it will take some time.